

IN THE CLAIMS:

Please amend claims 1, 5-6, and add a new claim 7 as follows:

1. (Currently Amended) A magnetic head driving circuit comprising:
 - a coil for generating a magnetic field corresponding to data to be recorded;
 - a main driving circuit for making a current flow in a positive direction or a negative direction through said coil; and
 - a sub-driving circuit for applying a voltage symmetrical with respect to the centered coil by superposing a pair of pulse voltages corresponding to a change-over direction at both terminals of said coil,
 - wherein said sub-driving circuit is configured to superpose said pair of pulse voltages such that a potential difference equal to or greater than a power supply applied to said both terminals of said coil.
2. (Original) A magnetic head driving circuit according to claim 1, wherein resistors are symmetrically connected between said coil and said main driving circuit, and said sub-driving circuit is connected to a connection node between one of said resistors and said coil, and to a connection node between the other of said resistors and said coil.
3. (Original) A magnetic head driving circuit according to claim 1, wherein said sub-driving circuit includes at least two pairs of circuits, each pair including a positive pulse adding circuit and a negative pulse adding circuit.
4. (Original) A magnetic head driving circuit according to claim 1, wherein said sub-driving circuit has a function to change a pulse voltage value to be adding to said coil in accordance with a current value made to flow by said main driving circuit.
5. (Currently Amended) A magnetic recording apparatus provided with a magnetic head driving circuit, said magnetic head driving circuit comprising:
 - a magnetic disk for recording data;
 - a controller for generating the data to be recorded on said magnetic disk;
 - a coil for generating a magnetic field corresponding to the data;

a main driving circuit for flowing a current in a positive direction or a negative direction through said coil; and

a sub-driving circuit for applying a voltage[[s]] symmetrical with respect to the centered coil by superposing a pair of pulse voltages corresponding to a direction of change-over to both terminals of said coil,

wherein said sub-driving circuit is configured to superpose said pair of pulse voltages such that a potential difference equal to or greater than a power supply applied to said both terminals of said coil.

6. (Currently Amended) A magnetic recording apparatus ~~according to claim 5,~~ provided with a magnetic head driving circuit, said magnetic head driving circuit comprising:

a coil for generating a magnetic field corresponding to data to be recorded;

a magnetic disk for recording data;

a main driving circuit for making a current flow in a positive or a negative direction through said coil; and

a sub-driving circuit for applying a voltage symmetrical with respect to the centered coil by superposing a pulse voltage corresponding to a change-over direction at both terminals of said coil,

wherein a central potential of said coil is substantially equal to a potential of said magnetic disk.

7. (New) A magnetic recording apparatus according to claim 6, wherein said sub-driving circuit is configured to superpose said pair of pulse voltages such that a potential difference equal to or greater than a power supply applied to said both terminals of said coil.